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OM nucleic - nucleic search, using sw model

Run on: December 23, 2004, 13:09:55 ; Search time 213.889 Seconds  
(without alignments)  
3254.138 Million cell updates/sec

Title: US-10-620-039-1\_COPY\_1\_125

Perfect score: 125  
Sequence: 1 TTGGCCACTCCCTCTCTGCG.....CCGAGAGGAGTGGCCAA 125

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 4105333 seqs, 2784095677 residues

Total number of hits satisfying chosen parameters: 8210666

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_NA.\*

- 1: /cgn2\_6/ptodata1/pubpna/US07\_PUBCOMB.seq.\*
- 2: /cgn2\_6/ptodata1/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata1/pubpna/US06\_NEW\_PUB.seq.\*
- 4: /cgn2\_6/ptodata1/pubpna/US06\_PUBCOMB.seq.\*
- 5: /cgn2\_6/ptodata1/pubpna/US07\_NEW\_PUB.seq.\*
- 6: /cgn2\_6/ptodata1/pubpna/PCTUS\_PUBCOMB.seq.\*
- 7: /cgn2\_6/ptodata1/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata1/pubpna/US08\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata1/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata1/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata1/pubpna/US10D\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata1/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata1/pubpna/US10\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata1/pubpna/US11\_NEW\_PUB.seq.\*
- 20: /cgn2\_6/ptodata1/pubpna/US60\_NEW\_PUB.seq.\*
- 21: /cgn2\_6/ptodata1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	125	100.0	130	9	US-09-928-158B-1
2	125	100.0	145	9	US-09-782-378A-6
3	125	100.0	145	15	US-10-240-198-2
4	125	100.0	145	18	US-10-837-029-1
5	125	100.0	145	18	US-10-837-029-11
6	125	100.0	146	13	US-10-135-984-8
7	125	100.0	165	9	US-09-782-378A-8
8	125	100.0	165	13	US-10-054-665-7
9	125	100.0	165	15	US-10-159-968-13
10	125	100.0	170	17	US-10-669-641-3
11	125	100.0	175	16	US-10-276-356-1
12	125	100.0	207	15	US-10-023-208-58

13	125	100.0	955	10	US-09-845-416-26	Sequence 26, Appl	
c	14	125	100.0	955	10	US-09-845-416-26	Sequence 26, Appl
15	125	100.0	987	10	US-09-845-416-33	Sequence 33, Appl	
c	16	125	100.0	987	10	US-09-845-416-33	Sequence 33, Appl
17	125	100.0	4414	10	US-09-845-416-32	Sequence 32, Appl	
c	18	125	100.0	4414	10	US-09-845-416-32	Sequence 32, Appl
19	125	100.0	4476	10	US-09-845-416-31	Sequence 31, Appl	
c	20	125	100.0	4476	10	US-09-845-416-31	Sequence 31, Appl
21	125	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl	
c	22	125	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl
23	125	100.0	4675	9	US-09-782-378A-1	Sequence 1, Appl	
24	125	100.0	4675	9	US-09-782-378A-2	Sequence 2, Appl	
25	125	100.0	4675	15	US-10-240-198-1	Sequence 1, Appl	
26	125	100.0	4675	15	US-10-291-583-7	Sequence 7, Appl	
27	125	100.0	4675	17	US-10-427-129-2	Sequence 2, Appl	
28	125	100.0	4679	9	US-09-804-898-1	Sequence 1, Appl	
29	125	100.0	4679	9	US-09-945-681-10	Sequence 10, Appl	
30	125	100.0	4679	13	US-10-038-972A-12	Sequence 12, Appl	
31	125	100.0	4679	15	US-10-136-819-6	Sequence 6, Appl	
32	125	100.0	4680	13	US-10-077-294-1	Sequence 1, Appl	
33	125	100.0	4680	13	US-10-163-886-1	Sequence 1, Appl	
34	125	100.0	4680	14	US-10-263-127-1	Sequence 1, Appl	
35	125	100.0	4680	15	US-10-375-777-1	Sequence 1, Appl	
36	125	100.0	4681	16	US-10-696-261-18	Sequence 18, Appl	
37	125	100.0	4681	16	US-10-696-282-18	Sequence 18, Appl	
38	125	100.0	4681	16	US-10-696-900-18	Sequence 18, Appl	
39	125	100.0	4683	16	US-10-696-261-19	Sequence 19, Appl	
40	125	100.0	4683	16	US-10-696-282-19	Sequence 19, Appl	
41	125	100.0	4683	16	US-10-696-900-19	Sequence 19, Appl	
42	125	100.0	4683	17	US-10-427-129-6	Sequence 6, Appl	
43	125	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl	
c	44	125	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl
c	45	125	100.0	4848	10	US-09-845-416-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1

US-09-928-158B-1  
; Sequence 1, Application US/09928158B  
; Patent No. US20020177222A1  
; GENERAL INFORMATION:  
; APPLICANT: SIKUN, LI  
; TITLE OF INVENTION: REPLICATION COMPETENT AAV HELPER FUNCTIONS  
; FILE REFERENCE: 102182-18  
; CURRENT APPLICATION NUMBER: US/09/928,158B  
; CURRENT FILING DATE: 2002-05-06  
; PRIOR APPLICATION NUMBER: 60/224,132  
; PRIOR FILING DATE: 2000-08-10  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 1  
; LENGTH: 130  
; TYPE: DNA  
; ORGANISM: adeno-associated virus 2  
US-09-928-158B-1

Query Match	100.0%	Score 125;	DB 9;	Length 130;
Best Local Similarity	100.0%	Pred. No. 9.6e-28;		
Matches 125;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGCAACAAAGTGGCC	60	
Db	1	TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGCAACAAAGTGGCC	60	
QY	61	CGAGCGCGCGGCTTTGCGCGCGGCGCTCAGTGAGCGAGCGCGCGAGAGGAGTG	120	
Db	61	CGAGCGCGCGGCTTTGCGCGCGGCGCTCAGTGAGCGAGCGCGCGAGAGGAGTG	120	
QY	121	GCCAA 125		
Db	121	GCCAA 125		

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RESULT 2
US-09-782-378A-6
; Sequence 6, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-6

Query Match      100.0%; Score 125; DB 9; Length 145;
Best Local Similarity 100.0%; Pred. No. 9.3e-28;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTAGAGCGCGGGCGACCAAGGTCGCC 60
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTAGAGCGCGGGCGACCAAGGTCGCC 60
QY 61 CGAGCGCCGGGCTTGGCCGGCGGCTCACTAGAGCGAGCGAGCGAGAGGAGTG 120
DB 61 CGAGCGCCGGGCTTGGCCGGCGGCTCACTAGAGCGAGCGAGCGAGAGGAGTG 120
QY 121 GCCAA 125
DB 121 GCCAA 125

RESULT 3
US-10-240-198-2
; Sequence 2, Application US/10240198
; Publication No. US20030100115A1
; GENERAL INFORMATION:
; APPLICANT: BTG International Ltd
; APPLICANT: BEARD DR, PETER
; APPLICANT: RAJ DR, KENNETH
; TITLE OF INVENTION: CVTOTOXIC AGENTS
; FILE REFERENCE: 142184W0
; CURRENT APPLICATION NUMBER: US/10/240,198
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: 0909887.1
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 145
; TYPE: DNA
; ORGANISM: adeno-associated virus 2
; FEATURE:
; NAME/KEY: misc structure
; LOCATION: (1)-(145)
; OTHER INFORMATION: ITR
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (72)
; OTHER INFORMATION: Unpaired base
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (94)
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; OTHER INFORMATION: Unpaired base
US-10-240-198-2

Query Match      100.0%; Score 125; DB 15; Length 145;
Best Local Similarity 100.0%; Pred. No. 9.3e-28;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTAGAGCGCGGGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTAGAGCGCGGGCGACCAAGGTCGCC 80
QY 61 CGAGCGCCGGGCTTGGCCGGCGGCTCACTAGAGCGAGCGAGCGAGAGGAGTG 120
DB 81 CGAGCGCCGGGCTTGGCCGGCGGCTCACTAGAGCGAGCGAGCGAGAGGAGTG 140
QY 121 GCCAA 125
DB 141 GCCAA 145

RESULT 4
US-10-837-029-1
; Sequence 1, Application US/10837029
; Publication No. US20040248301A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH
; TITLE OF INVENTION: INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES
; FILE REFERENCE: 875.10SUS1
; CURRENT APPLICATION NUMBER: US/10/837,029
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: US 10/194,421
; PRIOR FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: US 60/305,204
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Adeno-associated virus
US-10-837-029-1

Query Match      100.0%; Score 125; DB 18; Length 145;
Best Local Similarity 100.0%; Pred. No. 9.3e-28;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTAGAGCGCGGGCGACCAAGGTCGCC 60
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTAGAGCGCGGGCGACCAAGGTCGCC 60
QY 61 CGAGCGCCGGGCTTGGCCGGCGGCTCACTAGAGCGAGCGAGCGAGAGGAGTG 120
DB 61 CGAGCGCCGGGCTTGGCCGGCGGCTCACTAGAGCGAGCGAGCGAGAGGAGTG 120
QY 121 GCCAA 125
DB 121 GCCAA 125

RESULT 5
US-10-837-029-11
; Sequence 11, Application US/10837029
; Publication No. US20040248301A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; TITLE OF INVENTION: ADENO ASSOCIATED VIRUS VECTORS WITH
; TITLE OF INVENTION: INTRAVECTOR HETEROLOGOUS TERMINAL PALINDROMIC SEQUENCES
; FILE REFERENCE: 875.10SUS1
; CURRENT APPLICATION NUMBER: US/10/837,029
; CURRENT FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: US 10/194,421
; PRIOR FILING DATE: 2002-07-12
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; PRIOR APPLICATION NUMBER: US 60/305,204
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Adeno-associated virus
US-10-837-029-11

Query Match
Best Local Similarity 100.0%; Score 125; DB 18; Length 145;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 60
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 60
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 120
DB 61 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 120
QY 121 GCCAA 125
DB 121 GCCAA 125

RESULT 6
US-10-135-984-8
; Sequence 8, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weitzman
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALIKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; CURRENT FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 146
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-8

Query Match
Best Local Similarity 100.0%; Score 125; DB 13; Length 146;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 60
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 60
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 120
DB 61 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 120
QY 121 GCCAA 125
DB 121 GCCAA 125

RESULT 7
US-09-782-378A-8
; Sequence 8, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
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; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-8

Query Match
Best Local Similarity 100.0%; Score 125; DB 9; Length 165;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 140
QY 121 GCCAA 125
DB 141 GCCAA 145

RESULT 8
US-10-054-665-7
; Sequence 7, Application US/10054665
; Publication No. US20020197237A1
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongheng
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US2
; CURRENT APPLICATION NUMBER: US/10/054,665
; CURRENT FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/276,625
; PRIOR FILING DATE: 1999-03-25
; PRIOR APPLICATION NUMBER: US 60/086,166
; PRIOR FILING DATE: 1998-05-20
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745
US-10-054-665-7

Query Match
Best Local Similarity 100.0%; Score 125; DB 13; Length 165;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGGAGCGCGGCGGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGCTCAGTGGAGCGAGCGCGCAGAGGGAGTG 140
QY 121 GCCAA 125
DB 141 GCCAA 145
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RESULT 9  
US-10-159-968-13/c  
; Sequence 13, Application US/10159968  
; Publication No. US20030152914A1  
; GENERAL INFORMATION:  
; APPLICANT: Kaplitt, Michael G.  
; APPLICANT: Musatov, Serge  
; TITLE OF INVENTION: Method for Generating Replication  
; TITLE OF INVENTION: Defective Viral Vectors That are Helper Free  
; FILE REFERENCE: 600-1-286  
; CURRENT APPLICATION NUMBER: US/10/159,968  
; CURRENT FILING DATE: 2002-05-31  
; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: US 60/294,797  
; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: US 60/313,007  
; PRIOR FILING DATE: 2001-08-07  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 165  
; TYPE: DNA  
; ORGANISM: Adeno-associated virus  
US-10-159-968-13

Query Match 100.0%; Score 125; DB 15; Length 165;  
Best Local Similarity 100.0%; Pred. No. 9.1e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGCGGCGACCAAGGTGCGCC 60  
Db 145 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGCGGCGACCAAGGTGCGCC 86  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGGCGAGAGGAGTG 120  
Db 85 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGGCGAGAGGAGTG 26  
QY 121 GCCAA 125  
Db 25 GCCAA 21

RESULT 10  
US-10-669-641-3  
; Sequence 3, Application US/10669641  
; Publication No. US20040137628A1  
; GENERAL INFORMATION:  
; APPLICANT: WAGNER, THOMAS E.  
; APPLICANT: YU, XIANXANG  
; TITLE OF INVENTION: AAV ITR-MEDIATED MODULATION  
; FILE REFERENCE: 035879-0165  
; CURRENT APPLICATION NUMBER: US/10/669,641  
; CURRENT FILING DATE: 2003-09-25  
; PRIOR APPLICATION NUMBER: 60/413,450  
; PRIOR FILING DATE: 2002-09-26  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 3  
; LENGTH: 170  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic AAV  
; OTHER INFORMATION: ITR nucleotide sequence  
US-10-669-641-3

Query Match 100.0%; Score 125; DB 17; Length 170;  
Best Local Similarity 100.0%; Pred. No. 9e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGCGACCAAGGTGCGCC 60

Db 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTGCGCC 60  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGGCGAGAGGAGTG 120  
Db 61 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGGCGAGAGGAGTG 120  
QY 121 GCCAA 125  
Db 121 GCCAA 125

RESULT 11  
US-10-276-356-1/c  
; Sequence 1, Application US/10276356  
; Publication No. US20040029106A1  
; GENERAL INFORMATION:  
; APPLICANT: University of No. US20040029106A1th Carolina at Chapel Hill  
; APPLICANT: Samulski, R. Jude  
; APPLICANT: McCarty, Douglas M.  
; TITLE OF INVENTION: DUPLEXED PARVOVIRUS VECTORS  
; FILE REFERENCE: 5470-282  
; CURRENT APPLICATION NUMBER: US/10/276,356  
; CURRENT FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: PCT/US01/17587  
; PRIOR FILING DATE: 2001-05-31  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 175  
; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Inverted terminal repeat from the AAV-2 vector plasmid pSub 201  
US-10-276-356-1

Query Match 100.0%; Score 125; DB 16; Length 175;  
Best Local Similarity 100.0%; Pred. No. 9e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGCGACCAAGGTGCGCC 60  
Db 150 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGCGACCAAGGTGCGCC 91  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGGCGAGAGGAGTG 120  
Db 90 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGGCGAGAGGAGTG 31  
QY 121 GCCAA 125  
Db 30 GCCAA 26

RESULT 12  
US-10-023-208-58  
; Sequence 58, Application US/10023208  
; Publication No. US20030124537A1  
; GENERAL INFORMATION:  
; APPLICANT: Li, Min  
; APPLICANT: Liu, Yuan-Ching  
; TITLE OF INVENTION: PROCARYOTIC LIBRARIES AND USES  
; FILE REFERENCE: A-70174-1/RFT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/10/023,208  
; CURRENT FILING DATE: 2001-12-17  
; PRIOR APPLICATION NUMBER: US 60/256,163  
; PRIOR FILING DATE: 2000-12-14  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 58  
; LENGTH: 207  
; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic enzyme attachment site sequence

## US-10-023-208-58

Query Match 100.0%; Score 125; DB 15; Length 207;  
Best Local Similarity 100.0%; Pred. No. 8.6e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 42 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 101  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 120  
DB 102 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 161  
QY 121 GCCAA 125  
DB 162 GCCAA 166

## RESULT 13

US-09-845-416-26  
; Sequence 26, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; FILE REFERENCE: DE1142  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 26  
; LENGTH: 955  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-26

Query Match 100.0%; Score 125; DB 10; Length 955;  
Best Local Similarity 100.0%; Pred. No. 6.2e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 120  
DB 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 120  
QY 121 GCCAA 125  
DB 121 GCCAA 125

## RESULT 14

US-09-845-416-26/c  
; Sequence 26, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; FILE REFERENCE: DE1142  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 26

; LENGTH: 955  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-26

Query Match 100.0%; Score 125; DB 10; Length 955;  
Best Local Similarity 100.0%; Pred. No. 6.2e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 955 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 896  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 120  
DB 895 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 836  
QY 121 GCCAA 125  
DB 835 GCCAA 831

## RESULT 15

US-09-845-416-33  
; Sequence 33, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; FILE REFERENCE: DE1142  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; PRIOR FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 33  
; LENGTH: 987  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-33

Query Match 100.0%; Score 125; DB 10; Length 987;  
Best Local Similarity 100.0%; Pred. No. 6.2e-28;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 120  
DB 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGCAGAGGAGTG 120  
QY 121 GCCAA 125  
DB 121 GCCAA 125

Search completed: December 23, 2004, 14:51:21  
Job time : 214.889 secs

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OM nucleic - nucleic search, using sw model

Run on: December 23, 2004, 11:48:10 ; Search time 48.6111 Seconds  
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Perfect score: 125

Sequence: 1 TTGGCCACTCCCTCTCTGGG.....CGCAGAGAGGAGTGCGCCAA 125

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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- 5: /cgn2\_6/prodata/1/ina/PCTUS COMB.seq:\*
- 6: /cgn2\_6/prodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	125	100.0	145	1	US-07-789-917A-1
2	125	100.0	145	3	US-08-702-573-4
3	125	100.0	145	3	US-08-525-866-1
4	125	100.0	145	3	US-07-982-193-1
5	125	100.0	165	1	US-07-989-841A-1
6	125	100.0	165	2	US-08-440-738A-1
7	125	100.0	165	3	US-08-471-914-1
8	125	100.0	165	4	US-09-276-625-7
9	125	100.0	192	3	US-08-702-573-3
10	125	100.0	4680	1	US-08-254-358-1
11	125	100.0	4680	1	US-08-475-391-1
12	125	100.0	4680	2	US-08-709-609-1
13	125	100.0	4680	5	PCT-US95-07178-1
14	125	100.0	4681	4	US-09-807-802A-18
15	125	100.0	4683	4	US-09-807-802A-19
16	125	100.0	5932	4	US-09-299-141-4
17	125	100.0	5932	4	US-09-299-141-4
18	125	100.0	6142	4	US-09-299-141-8
19	125	100.0	6142	4	US-09-299-141-8
20	125	100.0	6253	3	US-08-993-327-15
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22	125	100.0	6280	3	US-08-993-327-17
23	125	100.0	6280	3	US-08-993-327-17
24	125	100.0	6280	3	US-08-993-327-19
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32	125	100.0	6924	4	US-09-299-141-10	Sequence 10, Appli
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36	125	100.0	6981	4	US-09-299-141-7	Sequence 7, Appli
37	125	100.0	6981	4	US-09-299-141-7	Sequence 7, Appli
38	125	100.0	7054	4	US-09-299-141-3	Sequence 3, Appli
39	125	100.0	7054	4	US-09-299-141-3	Sequence 3, Appli
40	125	100.0	7405	4	US-09-299-141-2	Sequence 2, Appli
41	125	100.0	7405	4	US-09-299-141-2	Sequence 2, Appli
42	125	100.0	7492	4	US-09-299-141-5	Sequence 5, Appli
43	125	100.0	7492	4	US-09-299-141-5	Sequence 5, Appli
44	125	100.0	8698	4	US-09-770-315-2	Sequence 2, Appli
45	123.4	98.7	272	4	US-09-276-625-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1  
US-07-789-917A-1  
; Sequence 1, Application US/07789917A  
; Patent No. 5252479  
; GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Scully, Scott, Murphy Presser  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11530  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07789,917A  
; FILING DATE: 19911118  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McNulty, William E.  
; REGISTRATION NUMBER: 22,606  
; REFERENCE/DOCKET NUMBER: 8361  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (516) 742-4343  
; TELEFAX: (516) 742-4366  
; TELEX: 230 901 SANS UR  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-07-789-917A-1

Query Match 100.0%; Score 125; DB 1; Length 145;  
Best Local Similarity 100.0%; Pred. No. 4.5e-25;  
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 TTGGCCACTCCCTCTCTGGCGCTCGCTCGCTCAGTGGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGGCTTTTCCCGGGCGGCGCTCAGTGGCGCGGCGCGAGAGGGAGTG 120

Db 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

Qy 121 GCCAA 125  
Db 121 GCCAA 125

RESULT 2  
US-08-702-573-4  
; Sequence 4, Application US/08702573  
; Patent No. 6033885  
; GENERAL INFORMATION:  
; APPLICANT: LATTA, Martine  
; APPLICANT: DENEFELE, Patrice  
; APPLICANT: VIGNE, Emmanuelle  
; APPLICANT: PERRICAUDET, Michel  
; TITLE OF INVENTION: INTEGRATIVE RECOMBINANT ADENOVIRUSES,  
; PREPARATION THEREOF AND THERAPEUTICAL USES THEREOF  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Rhone-Poulenc Rorer Inc.  
; STREET: 500 Arcola Rd. 3C43  
; CITY: Collegeville  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19426  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08702,573  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 94/02445  
; FILING DATE: 03-MAR-1994  
; PRIOR APPLICATION NUMBER: WO PCT/FR95/00233  
; APPLICATION NUMBER: 28-FEB-1995  
; FILING DATE: 28-FEB-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith Ph.D., Julie K.  
; REGISTRATION NUMBER: 38,619  
; REFERENCE/DOCKET NUMBER: ST94011-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (610)454-3839  
; TELEFAX: (610)454-3808  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1..145  
; OTHER INFORMATION: /note= "Minimal ITR Sequence"

US-08-702-573-4

Query Match 100.0%; Score 125; DB 3; Length 145;

Best Local Similarity 100.0%; Pred. No. 4.5e-25;

Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 60

Db 1 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 60

Qy 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

Db 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

Db 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

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Qy 121 GCCAA 125  
Db 121 GCCAA 125

RESULT 3  
US-08-525-866-1/c  
; Sequence 1, Application US/08525866  
; Patent No. 6207457  
; GENERAL INFORMATION:  
; APPLICANT: NATSOULIS, GEORGES  
; APPLICANT: FUROSKY, RICHARD T.  
; TITLE OF INVENTION: TARGETED NUCLEOTIDE SEQUENCE DELIVERY  
; TITLE OF INVENTION: AND INTEGRATION SYSTEM  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: REED & ROBINS  
; STREET: 285 Hamilton Avenue, Suite 200  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/525,866  
; FILING DATE: 08-SEP-1995  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ROBINS, ROBERTA L.  
; REGISTRATION NUMBER: 33,208  
; REFERENCE/DOCKET NUMBER: 0800-0006  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 327-3400  
; TELEFAX: (415) 327-3231  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-525-866-1

Query Match 100.0%; Score 125; DB 3; Length 145;

Best Local Similarity 100.0%; Pred. No. 4.5e-25;

Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 60

Db 125 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 66

Qy 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

Db 65 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 6

Qy 121 GCCAA 125  
Db 5 GCCAA 1

RESULT 4  
US-07-982-193-1  
; Sequence 1, Application US/07982193  
; Patent No. 6261834  
; GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:

Query Match 100.0%; Score 125; DB 3; Length 145;

Best Local Similarity 100.0%; Pred. No. 4.5e-25;

Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 125 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 66

Qy 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

Db 65 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 6

Qy 121 GCCAA 125  
Db 5 GCCAA 1

RESULT 4  
US-07-982-193-1  
; Sequence 1, Application US/07982193  
; Patent No. 6261834  
; GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:

Query Match 100.0%; Score 125; DB 3; Length 145;

Best Local Similarity 100.0%; Pred. No. 4.5e-25;

Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 60

Db 125 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 66

Qy 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120

Db 65 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 6

Qy 121 GCCAA 125  
Db 5 GCCAA 1

RESULT 4  
US-07-982-193-1  
; Sequence 1, Application US/07982193  
; Patent No. 6261834  
; GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:

Query Match 100.0%; Score 125; DB 3; Length 145;

Best Local Similarity 100.0%; Pred. No. 4.5e-25;

Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 60

Db 125 TTGGGCACCTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGGACCAAGTCCGC 66

Qy 61 CGACGCCCGGGCTTTGCCCCGGCGGCTCAGTGAGCGAGCGCGGAGAGGAGTG 120





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; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; US-08-440-738A-1

Query Match      100.0%; Score 125; DB 2; Length 165;
Best Local Similarity 100.0%; Pred. No. 4.5e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 80

QY 61 CGAGCGCCGGCTTTGGCCGGCGGCTCAGTGAGCGAGCGCGCAGAGGGAGTG 120
DB 81 CGAGCGCCGGCTTTGGCCGGCGGCTCAGTGAGCGAGCGCGCAGAGGGAGTG 140

QY 121 GCCAA 125
DB 141 GCCAA 145

RESULT 7
US-08-471-914-1
; Sequence 1, Application US/08471914A
; Patent No. 6057152
; GENERAL INFORMATION:
; APPLICANT: Samulski, R.
; APPLICANT: Xiao, X.
; TITLE OF INVENTION: RECOMBINANT VIRAL VECTOR SYSTEM
; FILE REFERENCE: 6636-027
; CURRENT APPLICATION NUMBER: US/08/471.914A
; CURRENT FILING DATE: 1995-06-06
; EARLIER APPLICATION NUMBER: 08/440.738
; EARLIER FILING DATE: 1995-05-15
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 165
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: double-D
; OTHER INFORMATION: sequence
; US-08-471-914-1

Query Match      100.0%; Score 125; DB 3; Length 165;
Best Local Similarity 100.0%; Pred. No. 4.5e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 80

QY 61 CGAGCGCCGGCTTTGGCCGGCGGCTCAGTGAGCGAGCGCGCAGAGGGAGTG 120
DB 81 CGAGCGCCGGCTTTGGCCGGCGGCTCAGTGAGCGAGCGCGCAGAGGGAGTG 140

QY 121 GCCAA 125
DB 141 GCCAA 145

RESULT 8
US-09-276-625-7
; Sequence 7, Application US/09276625
; Patent No. 6436392
; GENERAL INFORMATION:
; APPLICANT: Engelhardt, John F.
; APPLICANT: Duan, Dongsheng
; TITLE OF INVENTION: Adeno-associated virus vectors
; FILE REFERENCE: 875.007US1
; CURRENT APPLICATION NUMBER: US/09/276.625
; CURRENT FILING DATE: 1999-03-25

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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..192
; OTHER INFORMATION: /note= "Right ITR Sequence in
; Patent No. 6033885
; OTHER INFORMATION: pXL2384"
US-08-702-573-3

Query Match      100.0%; Score 125; DB 3; Length 192;
Best Local Similarity 100.0%; Pred. No. 4.5e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60
DB 68 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 127
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 128 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGAGCGCGAGAGGGAGTG 187
QY 121 GCCAA 125
DB 188 GCCAA 192

RESULT 10
US-08-254-358-1
; Sequence 1, Application US/08254358
; Patent No. 5658785
; GENERAL INFORMATION:
; APPLICANT: Johnson, Philip R.
; TITLE OF INVENTION: Adeno-Associated Virus Materials and
; TITLE OF INVENTION: Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/254,358
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5658785and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31975
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4680 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-254-358-1

Query Match      100.0%; Score 125; DB 1; Length 4680;
Best Local Similarity 100.0%; Pred. No. 5.2e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60
DB 68 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 127
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 128 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 187
QY 121 GCCAA 125
DB 188 GCCAA 192

RESULT 11
US-08-475-391-1
; Sequence 1, Application US/08475391
; Patent No. 5786211
; GENERAL INFORMATION:
; APPLICANT: Johnson, Philip R.
; TITLE OF INVENTION: Adeno-Associated Virus Materials and
; TITLE OF INVENTION: Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/475,391
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/254,358
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5786211and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31975
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4680 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-475-391-1

Query Match      100.0%; Score 125; DB 1; Length 4680;
Best Local Similarity 100.0%; Pred. No. 5.2e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60
DB 68 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 127
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 61 CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
QY 121 GCCAA 125
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Db      121 GCCAA 125
|||||
RESULT 12
US-08-709-609-1
; Sequence 1, Application US/08709609
; Patent No. 5859775
; GENERAL INFORMATION:
; APPLICANT: Johnson, Philip R.
; TITLE OF INVENTION: Adeno-Associated Virus Materials and
; TITLE OF INVENTION: Methods
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/709,609
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5858775and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31975
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4680 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-709-609-1
Query Match      100.0%; Score 125; DB 2; Length 4680;
Best Local Similarity 100.0%; Pred. No. 5.2e-25;
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGCGGCGACCAAGGTCGCC 60
Db      1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGCGGCGACCAAGGTCGCC 60

Qy      61 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGAGGAGTG 120
Db      61 CGACGCCCGGGCTTTGCCCGGGCGCTCACTGAGCGAGCGCGCGAGGAGTG 120

Qy      121 GCCAA 125
Db      121 GCCAA 125

RESULT 14
US-09-807-802A-18
; Sequence 18, Application US/09807802A
; Patent No. 6759237
; GENERAL INFORMATION:
; APPLICANT: Wilson, James M.
; APPLICANT: Xiao, Weidong
; TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid Sequences,
; TITLE OF INVENTION: Vectors and Host Cells Containing Same
; FILE REFERENCE: GNVFN.031USA
; CURRENT APPLICATION NUMBER: US/09/807,802A
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/107,114
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/25694
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 18
; LENGTH: 4681
; TYPE: DNA
; ORGANISM: AAV-2
US-09-807-802A-18
Query Match      100.0%; Score 125; DB 4; Length 4681;
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Best Local Similarity 100.0%; Pred. No. 5.2e-25;	
Matches 125; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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Db	1 TTGGCCACTCCCTCTGTGCGCGTCTCGTCTCACTGAGGCCGGCGACCAAGGTCGCC 60
Qy	61 CGAGCCCGGGCTTTGCCCGGGCGGCTCAGTCAGCGAGCGCGCAGAGAGGGAGTG 120
Db	61 CGAGCCCGGGCTTTGCCCGGGCGGCTCAGTCAGCGAGCGCGCAGAGAGGGAGTG 120
Qy	121 GCCAA 125
Db	121 GCCAA 125

**RESULT 15**

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US-09-807-802A-19
; Sequence 19, Application US/09807802A
; Patent No. 6759237
; GENERAL INFORMATION:
; APPLICANT: Wilson, James M.
; APPLICANT: xiao, Weidong
; TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid Sequences,
; TITLE OF INVENTION: Vectors and Host Cells Containing Same
; FILE REFERENCE: GNPVN.031USA
; CURRENT APPLICATION NUMBER: US/09/807,802A
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/107,114
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/25694
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 4683
; TYPE: DNA
; ORGANISM: AAV-6
US-09-807-802A-19

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	Query Match	100.0%;	Score 125;	DB 4;	Length 4683;
	Best Local Similarity	100.0%;	Pred. No. 5.2e-25;		
	Matches 125;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC	60		
Db	1	TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC	60		
Qy	61	CGAGCGCCGGGGCTTTGCGCGGGCGGGCTCAGTGAGCGAGCGAGCGGGGAGGTG	120		
Db	61	CGAGCGCCGGGGCTTTGCGCGGGCGGGCTCAGTGAGCGAGCGAGCGGGGAGGTG	120		
Qy	121	GCCAA	125		
Db	121	GCCAA	125		

Search completed: December 23, 2004, 13:22:11  
Job time : 49.6111 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 23, 2004, 11:48:10 ; Search time 56.3889 Seconds  
(without alignments)  
1827.743 Million cell updates/sec

Title: US-10-620-039-1

Perfect score: 145

Sequence: 1 TTGGGCATCTCCCTCTCTGGG.....CTCCATCACTAGGGTTCTCT 145

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/prodata/1/ina/5A\_COMB.seq:\*  
2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq:\*  
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4: /cgn2\_6/prodata/1/ina/6B\_COMB.seq:\*  
5: /cgn2\_6/prodata/1/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/prodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	145	100.0	145	1	US-07-789-917A-1
2	145	100.0	145	3	US-08-702-573-4
3	145	100.0	145	3	US-07-982-193-1
4	145	100.0	165	1	US-07-989-841A-1
5	145	100.0	165	2	US-08-440-738A-1
6	145	100.0	165	3	US-08-471-914-1
7	145	100.0	165	4	US-09-276-625-7
8	145	100.0	480	1	US-08-254-358-1
9	145	100.0	480	1	US-08-475-391-1
10	145	100.0	480	2	US-08-709-609-1
11	145	100.0	4680	5	PCT-US95-071178-1
12	145	100.0	4681	4	US-09-807-802A-18
13	145	100.0	4683	4	US-09-807-802A-19
14	145	100.0	5332	4	US-09-299-141-4
15	145	100.0	5332	4	US-09-299-141-4
16	145	100.0	6142	4	US-09-299-141-8
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18	145	100.0	6253	3	US-08-893-327-15
19	145	100.0	6253	3	US-08-893-327-15
20	145	100.0	6280	3	US-08-893-327-17
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c 33	145	100.0	6924	4	US-09-299-141-11	Sequence 11, Appli
34	145	100.0	6981	4	US-09-299-141-7	Sequence 7, Appli
c 35	145	100.0	6981	4	US-09-299-141-7	Sequence 7, Appli
36	145	100.0	7054	4	US-09-299-141-3	Sequence 3, Appli
c 37	145	100.0	7054	4	US-09-299-141-3	Sequence 3, Appli
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c 39	145	100.0	7405	4	US-09-299-141-2	Sequence 2, Appli
40	145	100.0	7492	4	US-09-299-141-5	Sequence 5, Appli
c 41	145	100.0	7492	4	US-09-299-141-5	Sequence 5, Appli
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43	143.4	98.9	272	4	US-09-276-625-4	Sequence 2, Appli
44	141.8	97.8	5585	2	US-08-305-221-1	Sequence 1, Appli
45	141.8	97.8	5585	4	US-09-000-003A-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1  
US-07-789-917A-1  
; Sequence 1, Application US/07789917A  
; Patent No. 5252479  
; GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Scully, Scott, Murphy Presser  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11530  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release q.0, Version q.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/789,917A  
; FILING DATE: 19911118  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McNulty, William E.  
; REGISTRATION NUMBER: 22,606  
; REFERENCE/DOCKET NUMBER: 8361  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (516) 742-4343  
; TELEFAX: (516) 742-4366  
; TELEX: 230 901 SANS UR  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-07-789-917A-1

Query Match 100.0%; Score 145; DB 1; Length 145;  
Best Local Similarity 100.0%; Pred. No. 2e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGGCATCTCCCTCTCTGGCGCTCGCTCGCTCACTAGCGCGGCGACCAAGGTCGCC 60  
Db 1 TTGGGCATCTCCCTCTCTCTGGCGCTCGCTCGCTCACTAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGGGCTTTTCCCGGGCGGCTTCAGTGAGCGAGCGCGCAGAGGAGGTG 120

Db 61 CGACGCCCGGGCTTTGCGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120  
QY 121 GCCAACTCCATCACTAGGGGTTCT 145  
Db 121 GCCAACTCCATCACTAGGGGTTCT 145

RESULT 2  
US-08-702-573-4  
; Sequence 4, Application US/08702573  
; Patent No. 6033885  
; GENERAL INFORMATION:  
; APPLICANT: LATTA, Martine  
; APPLICANT: DENEFLÉ, Patrice  
; APPLICANT: VIGNE, Emmanuelle  
; APPLICANT: PERRICAUDET, Michel  
; TITLE OF INVENTION: INTEGRATIVE RECOMBINANT ADENOVIRUSES,  
; TITLE OF INVENTION: PREPARATION THEREOF AND THERAPEUTICAL USES THEREOF  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Rhone-Poulenc Rorer Inc.  
; STREET: 500 Arcola Rd. 3043  
; CITY: Collegeville  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19426  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/702,573  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: FR 94/02445  
; FILING DATE: 03-MAR-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: WO PCT/FR95/00233  
; FILING DATE: 28-FEB-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Smith Ph.D., Julie K.  
; REGISTRATION NUMBER: 38,619  
; REFERENCE/DOCKET NUMBER: ST94011-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (610)454-3839  
; TELEFAX: (610)454-3808  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1..145  
; OTHER INFORMATION: /note= "Minimal ITR Sequence"  
US-08-702-573-4

Query Match 100.0%; Score 145; DB 3; Length 145;  
Best Local Similarity 100.0%; Pred. No. 2e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 60  
Db 1 TTGGCCACTCCCTCTCTGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 60  
QY 61 CGACGCCCGGGCTTTGCGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120  
Db 61 CGACGCCCGGGCTTTGCGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120

QY 121 GCCAACTCCATCACTAGGGGTTCT 145  
Db 121 GCCAACTCCATCACTAGGGGTTCT 145

RESULT 3  
US-07-982-193-1  
; Sequence 1, Application US/07982193  
; Patent No. 6261834  
; GENERAL INFORMATION:  
; APPLICANT: Srivastava, Arun  
; TITLE OF INVENTION: SAFE VECTOR FOR GENE THERAPY  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Scully, Scott, Murphy & Presser  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 11530  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/982,193  
; FILING DATE: 19921125  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McNulty, William E.  
; REGISTRATION NUMBER: 22,606  
; REFERENCE/DOCKET NUMBER: 8361  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (516) 742-4343  
; TELEFAX: (516) 742-4366  
; TELEX: 230 901 SANS UR  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 145 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-07-982-193-1

Query Match 100.0%; Score 145; DB 3; Length 145;  
Best Local Similarity 100.0%; Pred. No. 2e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 60  
Db 1 TTGGCCACTCCCTCTCTGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 60  
QY 61 CGACGCCCGGGCTTTGCGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120  
Db 61 CGACGCCCGGGCTTTGCGCGCGCTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120  
QY 121 GCCAACTCCATCACTAGGGGTTCT 145  
Db 121 GCCAACTCCATCACTAGGGGTTCT 145

RESULT 4  
US-07-989-841A-1  
; Sequence 1, Application US/07989841A  
; Patent No. 5478745  
; GENERAL INFORMATION:  
; APPLICANT: Samulski, R. J.  
; APPLICANT: Xiao, X.  
; TITLE OF INVENTION: Recombinant Viral Vector System  
; NUMBER OF SEQUENCES: 6



```

CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/989,841A
FILING DATE: On even date herewith
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-07-989-841A-1

Query Match 100.0%; Score 145; DB 1; Length 165;
Best Local Similarity 100.0%; Pred. No. 2.1e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 140
QY 121 GCCAACTCCATCACTAGGGGTTCCCT 145
DB 141 GCCAACTCCATCACTAGGGGTTCCCT 165

Query Match 100.0%; Score 145; DB 1; Length 165;
Best Local Similarity 100.0%; Pred. No. 2.1e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 140
QY 121 GCCAACTCCATCACTAGGGGTTCCCT 145
DB 141 GCCAACTCCATCACTAGGGGTTCCCT 165

CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/989,841A
FILING DATE: On even date herewith
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-440-738A-1

Query Match 100.0%; Score 145; DB 1; Length 165;
Best Local Similarity 100.0%; Pred. No. 2.1e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 140
QY 121 GCCAACTCCATCACTAGGGGTTCCCT 145
DB 141 GCCAACTCCATCACTAGGGGTTCCCT 165

CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/440,738A
FILING DATE: May 15, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6636-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-440-738A-1

Query Match 100.0%; Score 145; DB 2; Length 165;
Best Local Similarity 100.0%; Pred. No. 2.1e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 140
QY 121 GCCAACTCCATCACTAGGGGTTCCCT 145
DB 141 GCCAACTCCATCACTAGGGGTTCCCT 165

CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/440,738A
FILING DATE: May 15, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 6636-022
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 165 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-440-738A-1

Query Match 100.0%; Score 145; DB 3; Length 165;
Best Local Similarity 100.0%; Pred. No. 2.1e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 60
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGGCGCGCGCGACCAAGGTCGCC 80
QY 61 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 120
DB 81 CGACGCCCGGGCTTTGCCCGGGCGGCTTCAGTGAGCGAGCGCGCGAGAGGGAGTG 140
QY 121 GCCAACTCCATCACTAGGGGTTCCCT 145
DB 141 GCCAACTCCATCACTAGGGGTTCCCT 165

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Db 141 GCCAACTCCATCACTAGGGTTCT 165

RESULT 7

US-09-276-625-7  
; Sequence 7, Application US/09276625  
; Patent No. 6436392  
; GENERAL INFORMATION:  
; APPLICANT: Engelhardt, John F.  
; APPLICANT: Duan, Dongsheng  
; TITLE OF INVENTION: Adeno-associated virus vectors  
; FILE REFERENCE: 875.007U1  
; CURRENT APPLICATION NUMBER: US/09/276,625  
; CURRENT FILING DATE: 1999-03-25  
; PRIOR APPLICATION NUMBER: US 60/086,166  
; PRIOR FILING DATE: 1998-05-20  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 165  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; \* OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 6436392 5,478,745  
US-09-276-625-7

Query Match 100.0%; Score 145; DB 4; Length 165;  
Best Local Similarity 100.0%; Pred. No. 2.1e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTAGGCGCGGCGGACCAAGGTCGCC 60  
Db 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTAGGCGCGGCGGACCAAGGTCGCC 80  
Qy 61 CGAGCGCGCGGCTTTGCCCGGCGGCTCACTAGGCGGCGGCGGACGAGGAGGAGTG 120  
Db 81 CGAGCGCGCGGCTTTGCCCGGCGGCTCACTAGGCGGCGGCGGACGAGGAGGAGTG 140  
Qy 121 GCCAACTCCATCACTAGGGTTCT 145  
Db 141 GCCAACTCCATCACTAGGGTTCT 165

RESULT 8

US-08-254-358-1  
; Sequence 1, Application US/08254358  
; Patent No. 5658785  
; GENERAL INFORMATION:  
; APPLICANT: Johnson, Philip R.  
; TITLE OF INVENTION: Adeno-Associated Virus Materials and  
; TITLE OF INVENTION: Methods  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
; STREET: 6300 Sears Tower, 233 S. Wacker Drive  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION NUMBER: US/08/254,358  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; CLASSIFICATION: 435  
; NAME: No. 5658785and, Greta E.  
; REGISTRATION NUMBER: 35,302  
; REFERENCE/DOCKET NUMBER: 31975

TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (312) 474-6300  
; TELEFAX: (312) 474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4680 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-254-358-1

Query Match 100.0%; Score 145; DB 1; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTAGGCGCGGCGGACCAAGGTCGCC 60  
Db 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTAGGCGCGGCGGACCAAGGTCGCC 60  
Qy 61 CGAGCGCGCGGCTTTGCCCGGCGGCTCACTAGGCGGCGGCGGACGAGGAGGAGTG 120  
Db 61 CGAGCGCGCGGCTTTGCCCGGCGGCTCACTAGGCGGCGGCGGACGAGGAGGAGTG 120  
Qy 121 GCCAACTCCATCACTAGGGTTCT 145  
Db 121 GCCAACTCCATCACTAGGGTTCT 145

RESULT 9

US-08-475-391-1  
; Sequence 1, Application US/08475391  
; Patent No. 5786211  
; GENERAL INFORMATION:  
; APPLICANT: Johnson, Philip R.  
; TITLE OF INVENTION: Adeno-Associated Virus Materials and  
; TITLE OF INVENTION: Methods  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
; STREET: 6300 Sears Tower, 233 S. Wacker Drive  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION NUMBER: US/08/475,391  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/254,358  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: No. 5786211and, Greta E.  
; REGISTRATION NUMBER: 35,302  
; REFERENCE/DOCKET NUMBER: 31975  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (312) 474-6300  
; TELEFAX: (312) 474-0448  
; TELEX: 25-3856  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4680 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)

US-08-475-391-1

Query Match 100.0%; Score 145; DB 1; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGCTTTGCCCGGCGGCTCACTGAGCGAGCGCGCGCAGAGGGAGTG 120  
DB 61 CGACGCCCGGCTTTGCCCGGCGGCTCACTGAGCGAGCGCGCGCAGAGGGAGTG 120  
QY 121 GCCAACTCCATCACTAGGGGTTCTT 145  
DB 121 GCCAACTCCATCACTAGGGGTTCTT 145

RESULT 10

US-08-709-609-1

; Sequence 1, Application US/08709609

; Patent No. 5858775

; GENERAL INFORMATION:

; APPLICANT: Johnson, Philip R.

; TITLE OF INVENTION: Adeno-Associated Virus Materials and

; NUMBER OF SEQUENCES: 3

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &amp; Borun

; STREET: 6300 Sears Tower, 233 S. Wacker Drive

; CITY: Chicago

; STATE: Illinois

; COUNTRY: USA

; ZIP: 60606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/709,609

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: No. 5858775and, Greta E.

; REGISTRATION NUMBER: 35,302

; REFERENCE/DOCKET NUMBER: 31975

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (312) 474-6300

; TELEFAX: (312) 474-0448

; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4680 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-08-709-609-1

Query Match 100.0%; Score 145; DB 2; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGCTTTGCCCGGCGGCTCACTGAGCGAGCGCGCGCAGAGGGAGTG 120  
DB 61 CGACGCCCGGCTTTGCCCGGCGGCTCACTGAGCGAGCGCGCGCAGAGGGAGTG 120

QY 121 GCCAACTCCATCACTAGGGGTTCTT 145  
DB 121 GCCAACTCCATCACTAGGGGTTCTT 145

RESULT 11

PCT-US95-07178-1

; Sequence 1, Application PC/TUS9507178

; GENERAL INFORMATION:

; APPLICANT: Johnson, Philip R.

; TITLE OF INVENTION: Adeno-Associated Virus Materials and

; NUMBER OF SEQUENCES: 3

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &amp; Borun

; STREET: 6300 Sears Tower, 233 S. Wacker Drive

; CITY: Chicago

; STATE: Illinois

; COUNTRY: USA

; ZIP: 60606

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/07178

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Noland, Greta E.

; REGISTRATION NUMBER: 35,302

; REFERENCE/DOCKET NUMBER: 31975

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (312) 474-6300

; TELEFAX: (312) 474-0448

; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4680 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

PCT-US95-07178-1

Query Match 100.0%; Score 145; DB 5; Length 4680;  
Best Local Similarity 100.0%; Pred. No. 2.9e-31;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGCTTTGCCCGGCGGCTCACTGAGCGAGCGCGCGCAGAGGGAGTG 120  
DB 61 CGACGCCCGGCTTTGCCCGGCGGCTCACTGAGCGAGCGCGCGCAGAGGGAGTG 120

QY 121 GCCAACTCCATCACTAGGGGTTCTT 145  
DB 121 GCCAACTCCATCACTAGGGGTTCTT 145

RESULT 12

US-09-807-802A-18

; Sequence 18, Application US/09807802A

; Patent No. 6759237

; GENERAL INFORMATION:

; APPLICANT: Willson, James M.

; APPLICANT: Xiao, Weidong

; TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid Sequences,

; TITLE OF INVENTION: Vectors and Host Cells Containing Same

; FILE REFERENCE: GNVN.031USA

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; CURRENT APPLICATION NUMBER: US/09/807,802A
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/107,114
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/25694
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; TYPE: DNA
; ORGANISM: AAV-2
US-09-807-802A-18

Query Match      100.0%; Score 145; DB 4; Length 4681;
Best Local Similarity 100.0%; Pred. No. 2.9e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 60
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 60

QY 61 CGACGCGCGGGCTTTGCGCGGGCGGCTCAGTGAAGCGAGCGCGCGAGAGGGAGTG 120
DB 61 CGACGCGCGGGCTTTGCGCGGGCGGCTCAGTGAAGCGAGCGCGCGAGAGGGAGTG 120

QY 121 GCCAACTCCATCACTAGGGTTTCT 145
DB 121 GCCAACTCCATCACTAGGGTTTCT 145

RESULT 13
US-09-807-802A-19
; Sequence 19, Application US/09807802A
; Patent No. 6759237
; GENERAL INFORMATION:
; APPLICANT: Wilson, James M.
; APPLICANT: Xiao, Weidong
; TITLE OF INVENTION: Adeno-Associated Virus Serotype I Nucleic Acid Sequences,
; TITLE OF INVENTION: Vectors and Host Cells Containing Same
; FILE REFERENCE: GNPV.031USA
; CURRENT APPLICATION NUMBER: US/09/807,802A
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/107,114
; PRIOR FILING DATE: 1998-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/25694
; PRIOR FILING DATE: 1999-11-02
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 4683
; TYPE: DNA
; ORGANISM: AAV-6
US-09-807-802A-19

Query Match      100.0%; Score 145; DB 4; Length 4683;
Best Local Similarity 100.0%; Pred. No. 2.9e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 60
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 60

QY 61 CGACGCGCGGGCTTTGCGCGGGCGGCTCAGTGAAGCGAGCGCGCGAGAGGGAGTG 120
DB 61 CGACGCGCGGGCTTTGCGCGGGCGGCTCAGTGAAGCGAGCGCGCGAGAGGGAGTG 120

QY 121 GCCAACTCCATCACTAGGGTTTCT 145
DB 121 GCCAACTCCATCACTAGGGTTTCT 145

RESULT 14
US-09-299-141-4
; Sequence 4, Application US/09299141
; Patent No. 6461606
; GENERAL INFORMATION:
; APPLICANT: FLOTTE, TERENCE R.
; APPLICANT: SONG, SIHONG
; APPLICANT: BYRNE, BARRY J.
; APPLICANT: MORGAN, MICHAEL
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
; FILE REFERENCE: 4300.011800
; CURRENT APPLICATION NUMBER: US/09/299,141
; CURRENT FILING DATE: 1999-04-23
; EARLIER FILING DATE: 1998-04-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 5932
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:p43C-AT
US-09-299-141-4

Query Match      100.0%; Score 145; DB 4; Length 5932;
Best Local Similarity 100.0%; Pred. No. 2.9e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 60
DB 18 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 77

QY 61 CGACGCGCGGGCTTTGCGCGGGCGGCTCAGTGAAGCGAGCGCGCGAGAGGGAGTG 120
DB 78 CGACGCGCGGGCTTTGCGCGGGCGGCTCAGTGAAGCGAGCGCGCGAGAGGGAGTG 137

QY 121 GCCAACTCCATCACTAGGGTTTCT 145
DB 138 GCCAACTCCATCACTAGGGTTTCT 162

RESULT 15
US-09-299-141-4/c
; Sequence 4, Application US/09299141
; Patent No. 6461606
; GENERAL INFORMATION:
; APPLICANT: FLOTTE, TERENCE R.
; APPLICANT: SONG, SIHONG
; APPLICANT: BYRNE, BARRY J.
; APPLICANT: MORGAN, MICHAEL
; TITLE OF INVENTION: MATERIALS AND METHODS FOR GENE THERAPY
; FILE REFERENCE: 4300.011800
; CURRENT APPLICATION NUMBER: US/09/299,141
; CURRENT FILING DATE: 1999-04-23
; EARLIER FILING DATE: 1998-04-24
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 5932
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:p43C-AT
US-09-299-141-4

Query Match      100.0%; Score 145; DB 4; Length 5932;
Best Local Similarity 100.0%; Pred. No. 2.9e-31;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 60
DB 3078 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGGCGACCAAGGTCGCC 3019
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Qy	61	CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGGCACAGAGGGAGTG	120
Db	3018	CGACGCCCGGGCTTTGCCCGGGCGGCTCAGTGAGCGAGCGCGGCACAGAGGGAGTG	2959
Qy	121	GCCAACTCCATCACTAGGGGTTCT	145
Db	2958	GCCAACTCCATCACTAGGGGTTCT	2934

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Job time : 58.3889 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 23, 2004, 13:09:55 ; Search time 248.111 Seconds  
(without alignments)  
3254.138 Million cell updates/sec

Title: US-10-620-039-1

Perfect score: 145

Sequence: 1 TTGGCCACTCCCTCTCTGGG.....CTCCATCACTAGGGTTCTT 145

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Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 8210666

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Published Applications NA.\*

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- 17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 20: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 21: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	145	100.0	145	18	US-10-837-029-1
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4	145	100.0	146	13	US-10-135-984-8
5	145	100.0	165	9	US-09-782-378A-8
6	145	100.0	165	13	US-10-054-665-7
c 7	145	100.0	165	15	US-10-159-968-13
c 8	145	100.0	170	17	US-10-669-641-3
c 9	145	100.0	175	16	US-10-276-356-1
10	145	100.0	207	15	US-10-023-208-58
11	145	100.0	955	10	US-09-845-416-26
c 12	145	100.0	955	10	US-09-845-416-26

13	145	100.0	987	10	US-09-845-416-33	Sequence 33, Appl
c 14	145	100.0	987	10	US-09-845-416-33	Sequence 33, Appl
15	145	100.0	4414	10	US-09-845-416-32	Sequence 32, Appl
c 16	145	100.0	4414	10	US-09-845-416-32	Sequence 32, Appl
17	145	100.0	4476	10	US-09-845-416-31	Sequence 31, Appl
c 18	145	100.0	4476	10	US-09-845-416-31	Sequence 31, Appl
19	145	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl
c 20	145	100.0	4498	10	US-09-845-416-30	Sequence 30, Appl
21	145	100.0	4675	9	US-09-782-378A-1	Sequence 1, Appl
22	145	100.0	4675	9	US-09-782-378A-2	Sequence 2, Appl
23	145	100.0	4675	15	US-10-240-198-1	Sequence 1, Appl
24	145	100.0	4675	15	US-10-291-583-7	Sequence 7, Appl
25	145	100.0	4675	17	US-10-427-129-2	Sequence 2, Appl
26	145	100.0	4679	9	US-09-804-898-1	Sequence 1, Appl
27	145	100.0	4679	9	US-09-945-681-10	Sequence 10, Appl
28	145	100.0	4679	13	US-10-038-972A-12	Sequence 12, Appl
29	145	100.0	4679	15	US-10-136-819-6	Sequence 6, Appl
30	145	100.0	4680	13	US-10-077-294-1	Sequence 1, Appl
31	145	100.0	4680	13	US-10-163-886-1	Sequence 1, Appl
32	145	100.0	4680	14	US-10-263-127-1	Sequence 1, Appl
33	145	100.0	4680	15	US-10-375-777-1	Sequence 1, Appl
34	145	100.0	4681	16	US-10-696-261-18	Sequence 18, Appl
35	145	100.0	4681	16	US-10-696-282-18	Sequence 18, Appl
36	145	100.0	4681	16	US-10-696-900-18	Sequence 18, Appl
37	145	100.0	4683	16	US-10-696-261-19	Sequence 19, Appl
38	145	100.0	4683	16	US-10-696-282-19	Sequence 19, Appl
39	145	100.0	4683	16	US-10-696-900-19	Sequence 19, Appl
40	145	100.0	4683	17	US-10-427-129-6	Sequence 6, Appl
41	145	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl
c 42	145	100.0	4825	10	US-09-845-416-29	Sequence 29, Appl
c 43	145	100.0	4848	10	US-09-845-416-35	Sequence 35, Appl
44	145	100.0	4966	10	US-09-845-416-28	Sequence 28, Appl
c 45	145	100.0	4966	10	US-09-845-416-28	Sequence 28, Appl

#### ALIGNMENTS

#### RESULT 1

US-09-782-378A-6  
; Sequence 6, Application US/09782378A  
; Patent No. US20020102731A1  
; GENERAL INFORMATION:  
; APPLICANT: Hearing, Patrick  
; APPLICANT: Bahou, Wadie  
; APPLICANT: Sandalon, Ziv  
; APPLICANT: Gnatenko, Dmitri  
; TITLE OF INVENTION: Adenoviral Vectors  
; FILE REFERENCE: STONYB-04970  
; CURRENT APPLICATION NUMBER: US/09/782,378A  
; PRIOR FILING DATE: 2001-02-12  
; PRIOR APPLICATION NUMBER: 60/237,747  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 6  
; LENGTH: 145  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-782-378A-6

Query Match 100.0%; Score 145; DB 9; Length 145;  
Best Local Similarity 100.0%; Pred. No. 4.1e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	TTGGCCACTCCCTCTCTCTGGGCTCGCTCGCTCACTAGCGCGCGCGCAACAAAGGTCGCC	60
Db	1	TTGGCCACTCCCTCTCTCTGGGCTCGCTCGCTCACTAGCGCGCGCGCAACAAAGGTCGCC	60
Qy	61	CGACGCCCGGGCTTTTGGCCCGGGCGGCTTCAGTGAGCGAGCGAGCGAGAGGAGTG	120
Db	61	CGACGCCCGGGCTTTTGGCCCGGGCGGCTTCAGTGAGCGAGCGAGCGAGAGGAGTG	120





Query Match 100.0%; Score 145; DB 9; Length 165;  
Best Local Similarity 100.0%; Pred. No. 4e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 80  
QY 61 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 120  
DB 81 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 140  
QY 121 GCCAACTCCATCACTAGGGTTCT 145  
DB 141 GCCAACTCCATCACTAGGGTTCT 165

## RESULT 6

US-10-054-665-7  
; Sequence 7, Application US/10054665  
; Publication No. US2002019737A1  
; GENERAL INFORMATION:  
; APPLICANT: Engelhardt, John F.  
; TITLE OF INVENTION: Adeno-associated virus vectors  
; FILE REFERENCE: 875.007US2  
; CURRENT APPLICATION NUMBER: US/10/054,665  
; PRIOR FILING DATE: 2002-06-13  
; PRIOR APPLICATION NUMBER: US 09/276,625  
; PRIOR FILING DATE: 1999-03-25  
; PRIOR APPLICATION NUMBER: US 60/086,166  
; PRIOR FILING DATE: 1998-05-20  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 165  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745  
US-10-054-665-7

Query Match 100.0%; Score 145; DB 13; Length 165;  
Best Local Similarity 100.0%; Pred. No. 4e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 21 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 80  
QY 61 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 120  
DB 81 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 140  
QY 121 GCCAACTCCATCACTAGGGTTCT 145  
DB 141 GCCAACTCCATCACTAGGGTTCT 165

## RESULT 7

US-10-159-968-13/c  
; Sequence 13, Application US/10159968  
; Publication No. US20030152914A1  
; GENERAL INFORMATION:  
; APPLICANT: Kaplitt, Michael G.  
; APPLICANT: Musatov, Serge  
; TITLE OF INVENTION: Method for Generating Replication  
; TITLE OF INVENTION: Defective Viral Vectors That are Helper Free  
; FILE REFERENCE: 600-1-286  
; CURRENT APPLICATION NUMBER: US/10/159,968  
; PRIOR FILING DATE: 2002-05-31  
; PRIOR APPLICATION NUMBER: US 60/294,797

; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: US 60/313,007  
; PRIOR FILING DATE: 2001-08-07  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 165  
; TYPE: DNA  
; ORGANISM: Adeno-associated virus  
US-10-159-968-13

Query Match 100.0%; Score 145; DB 15; Length 165;  
Best Local Similarity 100.0%; Pred. No. 4e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 145 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 86  
QY 61 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 120  
DB 85 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 26  
QY 121 GCCAACTCCATCACTAGGGTTCT 145  
DB 25 GCCAACTCCATCACTAGGGTTCT 1

## RESULT 8

US-10-669-641-3  
; Sequence 3, Application US/10669641  
; Publication No. US20040137626A1  
; GENERAL INFORMATION:  
; APPLICANT: WAGNER, THOMAS E.  
; APPLICANT: YU, XIANKANG  
; TITLE OF INVENTION: AAV ITR-MEDIATED MODULATION  
; FILE REFERENCE: 035879-0165  
; CURRENT APPLICATION NUMBER: US/10/669,641  
; CURRENT FILING DATE: 2003-09-25  
; PRIOR APPLICATION NUMBER: 60/413,450  
; PRIOR FILING DATE: 2002-09-26  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 3  
; LENGTH: 170  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic AAV  
; OTHER INFORMATION: ITR nucleotide sequence  
US-10-669-641-3

Query Match 100.0%; Score 145; DB 17; Length 170;  
Best Local Similarity 100.0%; Pred. No. 4e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
DB 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCACTGAGCGCGGCGACCAAGGTCGCC 60  
QY 61 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 120  
DB 61 CGACGCCCGGGCTTTGCGCGCGGCGCTCACTGAGCGAGCGAGCGCGGCGAGAGGAGTG 120  
QY 121 GCCAACTCCATCACTAGGGTTCT 145  
DB 121 GCCAACTCCATCACTAGGGTTCT 145

## RESULT 9

US-10-276-356-1/c  
; Sequence 1, Application US/10276356  
; Publication No. US20040029106A1

GENERAL INFORMATION:  
; APPLICANT: University of No. US20040029106Alth Carolina at Chapel Hill  
; APPLICANT: Samulski, R. Jude  
; APPLICANT: McCarty, Douglas M.  
; TITLE OF INVENTION: DUPLICATED PARVOVIRUS VECTORS  
; FILE REFERENCE: 5470-282  
; CURRENT APPLICATION NUMBER: US/10/276,356  
; PRIOR FILING DATE: 2001-05-31  
; CURRENT FILING DATE: 2001-05-31  
; PRIOR FILING DATE: 2001-05-31  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 175  
; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Inverted terminal repeat from the AAV-2 vector plasmid pSub 201  
US-10-276-356-1

Query Match 100.0%; Score 145; DB 16; Length 175;  
Best Local Similarity 100.0%; Pred. No. 4e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY: 1 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 60  
Db 150 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 91  
QY: 61 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGCGGCGAGAGGAGTG 120  
Db 90 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGCGGCGAGAGGAGTG 31  
QY: 121 GCCAACTCCATCACTAGGGTTCT 145  
Db 30 GCCAACTCCATCACTAGGGTTCT 6

RESULT 10  
US-10-023-208-58  
; Sequence 58, Application US/10023208  
; Publication No. US20030124537A1  
; GENERAL INFORMATION:  
; APPLICANT: Li, Min  
; APPLICANT: Liu, Yuan-Ching  
; TITLE OF INVENTION: PROCAROTIC LIBRARIES AND USES  
; FILE REFERENCE: A-70174-1/RT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/10/023,208  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR FILING DATE: 2001-12-17  
; PRIOR FILING DATE: 2000-12-14  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 58  
; LENGTH: 207  
; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic enzyme attachment site sequence  
US-10-023-208-58

Query Match 100.0%; Score 145; DB 15; Length 207;  
Best Local Similarity 100.0%; Pred. No. 3.9e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY: 1 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 60  
Db 42 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 101  
QY: 61 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGCGGCGAGAGGAGTG 120  
Db 102 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGCGGCGAGAGGAGTG 161  
QY: 121 GCCAACTCCATCACTAGGGTTCT 145

Db 162 GCCAACTCCATCACTAGGGTTCT 186

RESULT 11  
US-09-845-416-26  
; Sequence 26, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; FILE REFERENCE: DE1142  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 26  
; LENGTH: 955  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-26

Query Match 100.0%; Score 145; DB 10; Length 955;  
Best Local Similarity 100.0%; Pred. No. 3.2e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY: 1 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 60  
Db 1 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 60  
QY: 61 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGAGCGCGAGAGGAGTG 120  
Db 61 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGAGCGCGAGAGGAGTG 120  
QY: 121 GCCAACTCCATCACTAGGGTTCT 145  
Db 121 GCCAACTCCATCACTAGGGTTCT 145

RESULT 12  
US-09-845-416-26/c  
; Sequence 26, Application US/09845416  
; Publication No. US20030171312A1  
; GENERAL INFORMATION:  
; APPLICANT: XIAO, XIAO  
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
; FILE REFERENCE: DE1142  
; CURRENT APPLICATION NUMBER: US/09/845,416  
; CURRENT FILING DATE: 2001-04-30  
; PRIOR APPLICATION NUMBER: 60/200,777  
; PRIOR FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 36  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 26  
; LENGTH: 955  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-845-416-26

Query Match 100.0%; Score 145; DB 10; Length 955;  
Best Local Similarity 100.0%; Pred. No. 3.2e-35;  
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY: 1 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 60  
Db 955 TTGGCCACTCCCTCTCTGCGGCTCGCTCACTAGAGCGCGGCGACCAAGGTCGCC 896  
QY: 61 CGAGCCCGGGCTTTGCGCGGCGGCTCACTAGAGCGAGCGCGAGAGGAGTG 120

Db 895 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 836  
 Qy 121 GCCAACTCCATCACTAGGGTTCTT 145  
 Db 835 GCCAACTCCATCACTAGGGTTCTT 811

RESULT 13  
 US-09-845-416-33  
 ; Sequence 33, Application US/09845416  
 ; Publication No. US20030171312A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: XIAO, XIAO  
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 ; FILE REFERENCE: DE1142  
 ; CURRENT APPLICATION NUMBER: US/09/845,416  
 ; PRIOR FILING DATE: 2001-04-30  
 ; PRIOR APPLICATION NUMBER: 60/200,777  
 ; PRIOR FILING DATE: 2000-04-28  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 33  
 ; LENGTH: 987  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-845-416-33

Query Match 100.0%; Score 145; DB 10; Length 987;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 60  
 Db 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 60  
 Qy 61 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 120  
 Db 61 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 120  
 Qy 121 GCCAACTCCATCACTAGGGTTCTT 145  
 Db 121 GCCAACTCCATCACTAGGGTTCTT 145

RESULT 14  
 US-09-845-416-33/c  
 ; Sequence 33, Application US/09845416  
 ; Publication No. US20030171312A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: XIAO, XIAO  
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 ; FILE REFERENCE: DE1142  
 ; CURRENT APPLICATION NUMBER: US/09/845,416  
 ; PRIOR FILING DATE: 2001-04-30  
 ; PRIOR APPLICATION NUMBER: 60/200,777  
 ; PRIOR FILING DATE: 2000-04-28  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 33  
 ; LENGTH: 987  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-845-416-33

Query Match 100.0%; Score 145; DB 10; Length 987;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 60  
 Db 987 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 928

Qy 61 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 120  
 Db 927 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 868  
 Qy 121 GCCAACTCCATCACTAGGGTTCTT 145  
 Db 867 GCCAACTCCATCACTAGGGTTCTT 843

RESULT 15  
 US-09-845-416-32  
 ; Sequence 32, Application US/09845416  
 ; Publication No. US20030171312A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: XIAO, XIAO  
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE  
 ; FILE REFERENCE: DE1142  
 ; CURRENT APPLICATION NUMBER: US/09/845,416  
 ; CURRENT FILING DATE: 2001-04-30  
 ; PRIOR APPLICATION NUMBER: 60/200,777  
 ; PRIOR FILING DATE: 2000-04-28  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 32  
 ; LENGTH: 4414  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-09-845-416-32

Query Match 100.0%; Score 145; DB 10; Length 4414;  
 Best Local Similarity 100.0%; Pred. No. 2.5e-35;  
 Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 60  
 Db 1 TTGGCCACTCCCTCTCTGCGCGCTCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 60  
 Qy 61 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 120  
 Db 61 CGACGCCCGGGCTTTCGCCGGCGCTCAGTGAGCGGCGGCGCAGAGAGGAGTG 120  
 Qy 121 GCCAACTCCATCACTAGGGTTCTT 145  
 Db 121 GCCAACTCCATCACTAGGGTTCTT 145

Search completed: December 23, 2004, 14:51:20  
 Job time : 250.111 secs

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